

I hereby appoint the following attorneys to prosecute this application and/or an international application based on this application and to transact all business in the Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the attorneys identified below, unless the inventor(s) or assignee provides said attorneys with a written notice to the contrary:

Terrell C. Birch	(Reg. No. 19,382)	Raymond C. Stewart	(Reg. No. 21,066)
Joseph A. Kolasch	(Reg. No. 22,463)	James M. Slattery	(Reg. No. 28,380)
Bernard L. Sweeney	(Reg. No. 24,448)	Michael K. Mutter	(Reg. No. 29,680)
Charles Gorenstein	(Reg. No. 29,271)	Gerald M. Murphy, Jr.	(Reg. No. 28,977)
Leonard R. Svensson	(Reg. No. 30,330)	Terry L. Clark	(Reg. No. 32,644)
Andrew D. Meikle	(Reg. No. 32,868)	Marc S. Weiner	(Reg. No. 32,181)
Joe McKinney Muncy	(Reg. No. 32,334)	Donald J. Daley	(Reg. No. 34,313)
C. Joseph Faraci	(Reg. No. 32,350)		

Send Correspondence to:

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

**PLEASE NOTE:
YOU MUST
COMPLETE THE
FOLLOWING:**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<input type="checkbox"/> Full Name of First or Sole Inventor <input type="checkbox"/> see above <input type="checkbox"/> Insert Name of Inventor <input type="checkbox"/> Insert Date This Document is Signed <input type="checkbox"/> Insert Residence <input type="checkbox"/> Insert Citizenship <input type="checkbox"/> Insert Post Office Address		GIVEN NAME Shinji FAMILY NAME MATSUO INVENTOR'S SIGNATURE <i>S. Matsuo</i> DATE* January 7, 2002	
Residence (City, State & Country) Kitakyushu-shi, Fukuoka Japan		CITIZENSHIP Japanese	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Research&Development Laboratories, Nippon Steel Chemical Co., Ltd., 46-80, Oaza Nakabaru Sakinohama, Tobata-ku, Kitakyushu-shi, Fukuoka 804-8503 Japan			
<input type="checkbox"/> Full Name of Second Inventor, if any <small>see above</small>		GIVEN NAME Kazuo FAMILY NAME ISHII INVENTOR'S SIGNATURE <i>K. Ishii</i> DATE* January 7, 2002	
Residence (City, State & Country) Kitakyushu-shi, Fukuoka Japan		CITIZENSHIP Japanese	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Research&Development Laboratories, Nippon Steel Chemical Co., Ltd., 46-80, Oaza Nakabaru Sakinohama, Tobata-ku, Kitakyushu-shi, Fukuoka 804-8503 Japan			
<input type="checkbox"/> Full Name of Third Inventor, if any <small>see above</small>		GIVEN NAME Hiroshi FAMILY NAME MIYAZAKI INVENTOR'S SIGNATURE <i>H. Miyazaki</i> DATE* January 7, 2002	
Residence (City, State & Country) Kitakyushu-shi, Fukuoka Japan		CITIZENSHIP Japanese	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Research&Development Laboratories, Nippon Steel Chemical Co., Ltd., 46-80, Oaza Nakabaru Sakinohama, Tobata-ku, Kitakyushu-shi, Fukuoka 804-8503 Japan			
<input type="checkbox"/> Full Name of Fourth Inventor, if any <small>see above</small>		GIVEN NAME FAMILY NAME INVENTOR'S SIGNATURE DATE*	
Residence (City, State & Country)		CITIZENSHIP	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country)			
<input type="checkbox"/> Full Name of Fifth Inventor, if any <small>see above</small>		GIVEN NAME FAMILY NAME INVENTOR'S SIGNATURE DATE*	
Residence (City, State & Country)		CITIZENSHIP	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country)			

I hereby appoint the following attorneys to prosecute this application and/or an international application based on this application and to transact all business in the Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the attorneys identified below, unless the inventor(s) or assignee provides said attorneys with a written notice to the contrary:

Terrell C. Birch	(Reg. No. 19,382)	Raymond C. Stewart	(Reg. No. 21,066)
Joseph A. Kolasch	(Reg. No. 22,463)	James M. Slattery	(Reg. No. 28,380)
Bernard L. Sweeney	(Reg. No. 24,448)	Michael K. Mutter	(Reg. No. 29,680)
Charles Gorenstein	(Reg. No. 29,271)	Gerald M. Murphy, Jr.	(Reg. No. 28,977)
Leonard R. Svensson	(Reg. No. 30,330)	Terry L. Clark	(Reg. No. 32,644)
Andrew D. Meikle	(Reg. No. 32,868)	Marc S. Weiner	(Reg. No. 32,181)
Joe McKinney Muncy	(Reg. No. 32,334)	Donald J. Daley	(Reg. No. 34,313)
C. Joseph Faraci	(Reg. No. 32,350)		

Send Correspondence to:

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747
 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

PLEASE NOTE:
 YOU MUST
 COMPLETE THE
 FOLLOWING:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First or Sole Inventor: <input type="text"/> Insert Name of Inventor <input type="text"/> Insert Date This Document is Signed	GIVEN NAME Toshinao	FAMILY NAME YUKI	INVENTOR'S SIGNATURE <i>Toshinao Yuki</i>	DATE* January 7, 2002
Insert Residence <input type="text"/> Insert Citizenship	Residence (City, State & Country) Yonezawa-shi, Yamagata Japan			CITIZENSHIP Japanese
Insert Post Office Address <input type="text"/>	POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Tohoku Pioneer Corporation, 3146-7, Hachiman'para 4-chome, Yonezawa-shi, Yamagata 992-1128 Japan			
Full Name of Second Inventor, if any: <small>see above</small>	GIVEN NAME Hitoshi	FAMILY NAME NAKADA	INVENTOR'S SIGNATURE <i>Hitoshi Nakada</i>	DATE* January 7, 2002
Residence (City, State & Country) Yonezawa-shi, Yamagata Japan				CITIZENSHIP Japanese
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Tohoku Pioneer Corporation, 3146-7, Hachiman'para 4-chome, Yonezawa-shi, Yamagata 992-1128 Japan				
Full Name of Third Inventor, if any: <small>see above</small>	GIVEN NAME Ryuji	FAMILY NAME MURAYAMA	INVENTOR'S SIGNATURE <i>Ryuji Murayama</i>	DATE* January 7, 2002
Residence (City, State & Country) Yonezawa-shi, Yamagata Japan				CITIZENSHIP Japanese
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Tohoku Pioneer Corporation, 3146-7, Hachiman'para 4-chome, Yonezawa-shi, Yamagata 992-1128 Japan				
Full Name of Fourth Inventor, if any: <small>see above</small>	GIVEN NAME Yasuhiko	FAMILY NAME SAWADA	INVENTOR'S SIGNATURE <i>Yasuhiko Sawada</i>	DATE* January 7, 2002
Residence (City, State & Country) Yonezawa-shi, Yamagata Japan				CITIZENSHIP Japanese
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Tohoku Pioneer Corporation, 3146-7, Hachiman'para 4-chome, Yonezawa-shi, Yamagata 992-1128 Japan				
Full Name of Fifth Inventor, if any: <small>see above</small>	GIVEN NAME Tsuyoshi	FAMILY NAME NAJIO	INVENTOR'S SIGNATURE <i>Tsuyoshi Najio</i>	DATE* January 7, 2002
Residence (City, State & Country) Yonezawa-shi, Yamagata Japan				CITIZENSHIP Japanese
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Tohoku Pioneer Corporation, 3146-7, Hachiman'para 4-chome, Yonezawa-shi, Yamagata 992-1128 Japan				

• DATE OF SIGNATURE

I hereby appoint the following attorneys to prosecute this application and/or an international application based on this application and to transact all business in the Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the attorneys identified below, unless the inventor(s) or assignee provides said attorneys with a written notice to the contrary:

Terrell C. Birch	(Reg. No. 19,382)	Raymond C. Stewart	(Reg. No. 21,066)
Joseph A. Kolasch	(Reg. No. 22,463)	James M. Slattery	(Reg. No. 28,380)
Bernard L. Sweeney	(Reg. No. 24,448)	Michael K. Mutter	(Reg. No. 29,680)
Charles Gorenstein	(Reg. No. 29,271)	Gerald M. Murphy, Jr.	(Reg. No. 28,977)
Leonard R. Svensson	(Reg. No. 30,330)	Terry L. Clark	(Reg. No. 32,644)
Andrew D. Meikle	(Reg. No. 32,868)	Marc S. Weiner	(Reg. No. 32,181)
Joe McKinney Muncy	(Reg. No. 32,334)	Donald J. Daley	(Reg. No. 34,313)
C. Joseph Faraci	(Reg. No. 32,350)		

Send Correspondence to:

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

PLEASE NOTE:
YOU MUST
COMPLETE THE
FOLLOWING:



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First or Sole Inventor:

Insert Name of Inventor

Insert Date This Document is Signed

Insert Residence
Insert Citizenship

Insert Post Office Address

Full Name of Second Inventor, if any:

see above

Full Name of Third Inventor, if any

see above

Full Name of Fourth Inventor, if any

see above

Full Name of Fifth Inventor, if any

see above

GIVEN NAME	FAMILY NAME	INVENTOR'S SIGNATURE	DATE*
Yoshinori	FUKUDA	<i>Yoshinori Fukuda</i>	January 7, 2002
Residence (City, State & Country)		CITIZENSHIP	
Yonezawa-shi, Yamagata Japan		Japanese	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country) c/o Tohoku Pioneer Corporation, 3146-7, Hachiman-para 4-chome, Yonezawa-shi, Yamagata 992-1128 Japan			
GIVEN NAME	FAMILY NAME	INVENTOR'S SIGNATURE	DATE*
Residence (City, State & Country)		CITIZENSHIP	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country)			
GIVEN NAME	FAMILY NAME	INVENTOR'S SIGNATURE	DATE*
Residence (City, State & Country)		CITIZENSHIP	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country)			
GIVEN NAME	FAMILY NAME	INVENTOR'S SIGNATURE	DATE*
Residence (City, State & Country)		CITIZENSHIP	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country)			
GIVEN NAME	FAMILY NAME	INVENTOR'S SIGNATURE	DATE*
Residence (City, State & Country)		CITIZENSHIP	
POST OFFICE ADDRESS (Complete Street Address including City, State & Country)			

• DATE OF SIGNATURE